



March 3, 2011

Dave Vogel
Natural Resources Scientists, Inc.
P.O. Box 1210
Red Bluff, CA 96080

Dear Mr. Vogel:

The Department of Fish and Game (Department) has received your request to sample fish entrained into diversion canals at 5 locations on the Sacramento River and in Steamboat Slough. You indicated that this research project is to incorporate a process to correlate fish entrainment with physical, hydraulic, and habitat variables at diversion sites during typical irrigation diversion (riverine and water extraction) periods. The study will take advantage of an opportunity to sample fish entrainment at riverine diversions scheduled for fish screen installation prior to construction. The goal is to index unscreened diversions (under 250 cfs) and purposely direct available funding to screen selected diversions. Work on this particular project will advance this goal the following ways:

- Monitor 5 pre-selected unscreened diversions on the Sacramento River and in Steamboat Slough over a two-year period (March-January);
- Collect fish habitat, hydraulic, and bathymetric data in the immediate vicinity of the five unscreened diversions;
- Determine total fish entrainment in relation to flow diverted.

Your request included an outline of your proposed field protocol (Section 10 Permit #14077 and 14688) submitted to the National Marine Fisheries Service (NOAA Fisheries). You are acting as an Agent of the State, you will not require a Scientific Collecting Permit (SCP) for this particular project provided the project is implemented as specified in your protocol and the following conditions are adhered to:

1. Mr. Dave Vogel is currently approved to collect under these guidelines. A lead field person will be responsible to assure compliance with all the terms of the proposed field protocol on and day-to-day basis.
2. This approval is for the period of March 1, 2011, through January 31, 2012 and March 1, 2012, through January 31, 2013.
3. A copy of any report or publication arising from this research shall be provided to Mr. Robert Vincik within one month of completion. These may be transmitted to Mr. Vincik electronically (rvincik@dfg.ca.gov), or mailed to 1701 Nimbus Road, Suite A, Rancho Cordova, CA 95670.
4. A copy of this approval must be in possession while conducting field work.
5. Should any deviation from the above occur, the Department (Mr. Vincik) shall be notified immediately.

6. This authorization does not waive any obligation or need to obtain any Federal permits.

If you have any questions or need additional assistance, please contact Mr. Vincik, Environmental Scientist, at telephone number (916) 358-2933.

Sincerely

A handwritten signature in black ink, appearing to read "Joseph R. Johnson". The signature is fluid and cursive, with the first name "Joseph" being the most prominent.

Joseph R. Johnson
Senior Environmental Scientist